



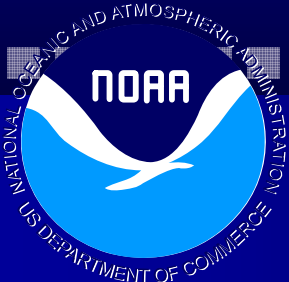
# ***Your Local National Weather Service Forecast Office Saves Lives!***

**Regional Interagency Steering Committee  
Atlanta, GA – February 9, 2006**

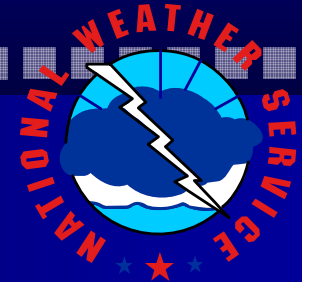
**Bill Proenza  
Regional Director  
National Weather Service  
Southern Region**

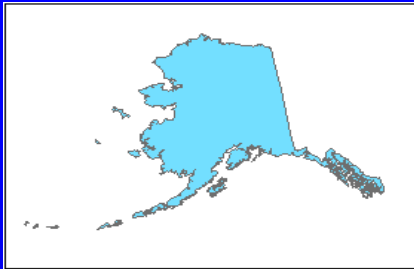
# Overview

- Your “**Local**” National Weather Service Office Performance in our most Severe Weather Active Nation.
- Your Internet: For the Latest in Developing Weather and Warnings
- RIDGE Radar – The new National Weather Service GIS ready Radar Display
- Tropical Season 2005 and looking ahead



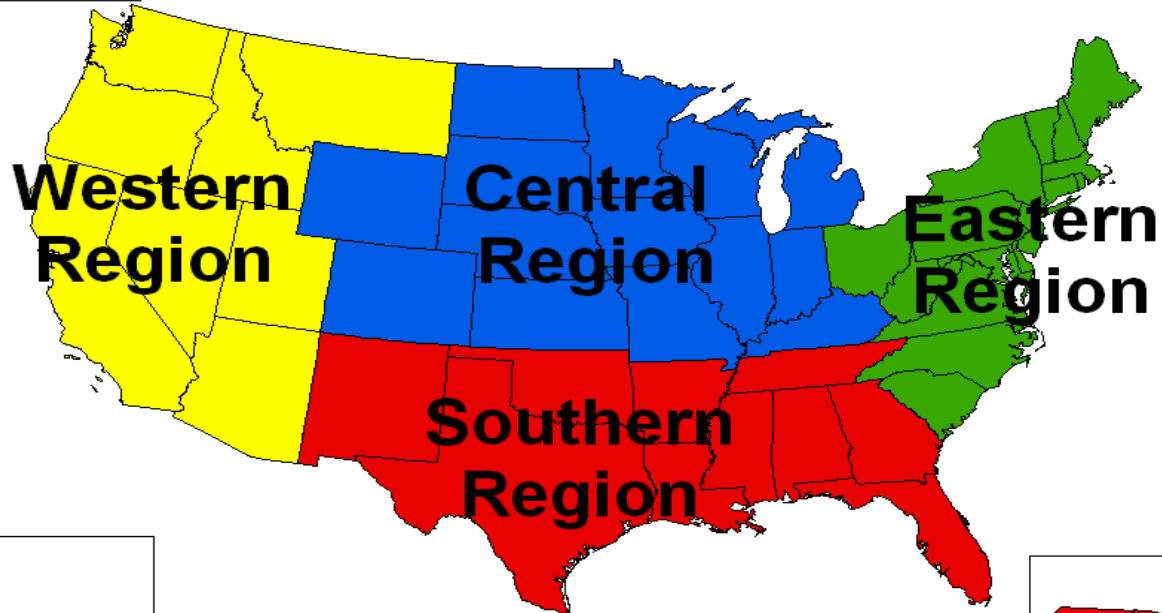
NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)





**Alaska  
Region**

## National Weather Service Regions



*Hawaii and Guam*

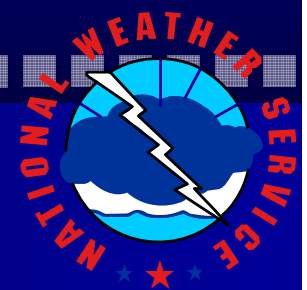
**Pacific  
Region**



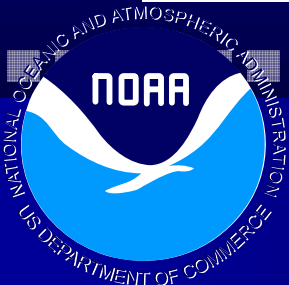
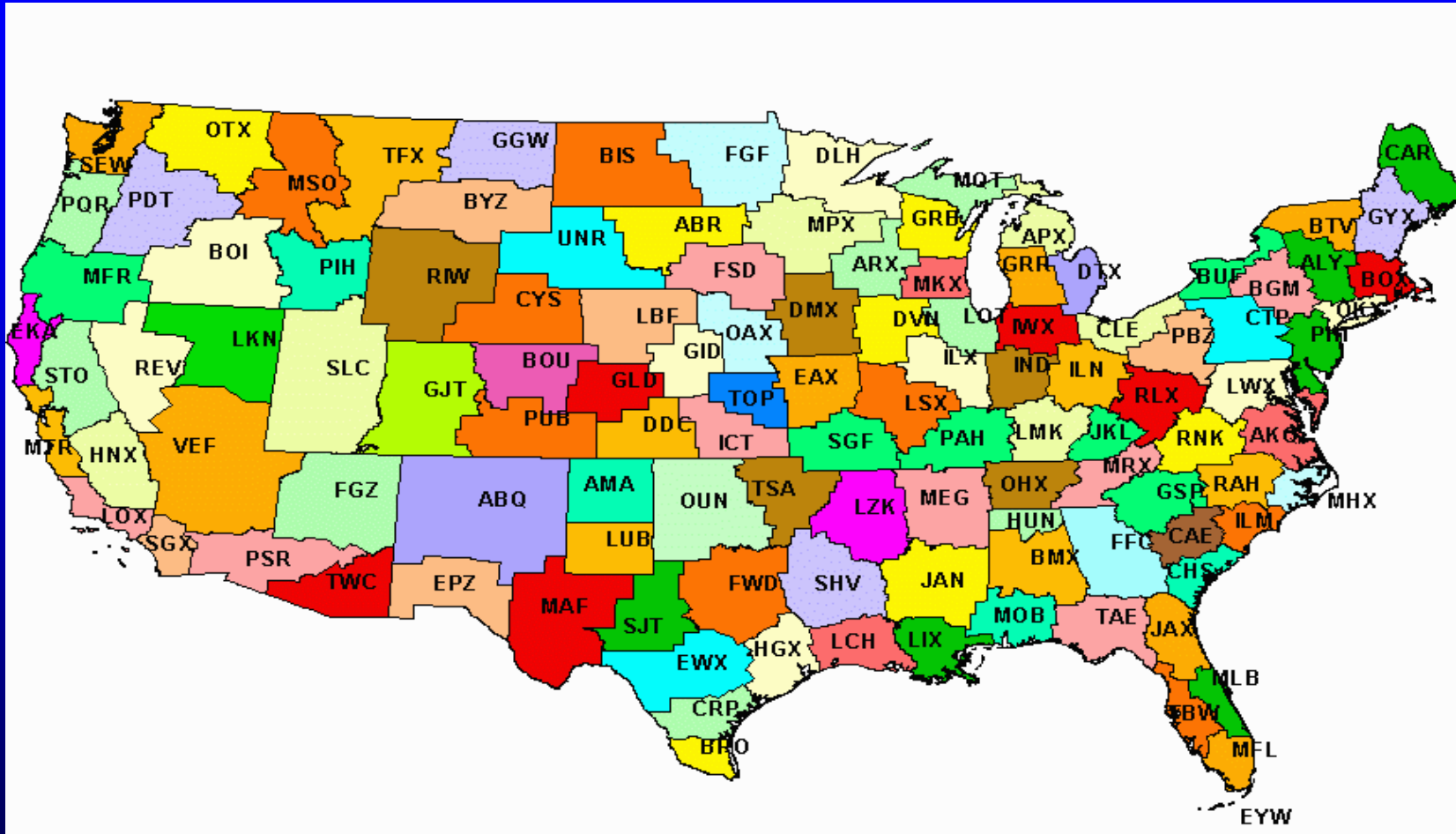
*Puerto Rico and  
Virgin Islands*



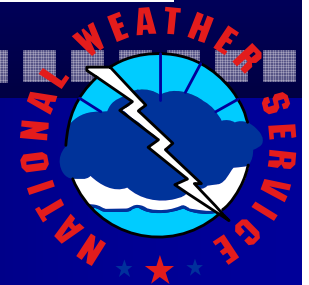
**NWS SOUTHERN REGION**  
[www.srh.weather.gov](http://www.srh.weather.gov)



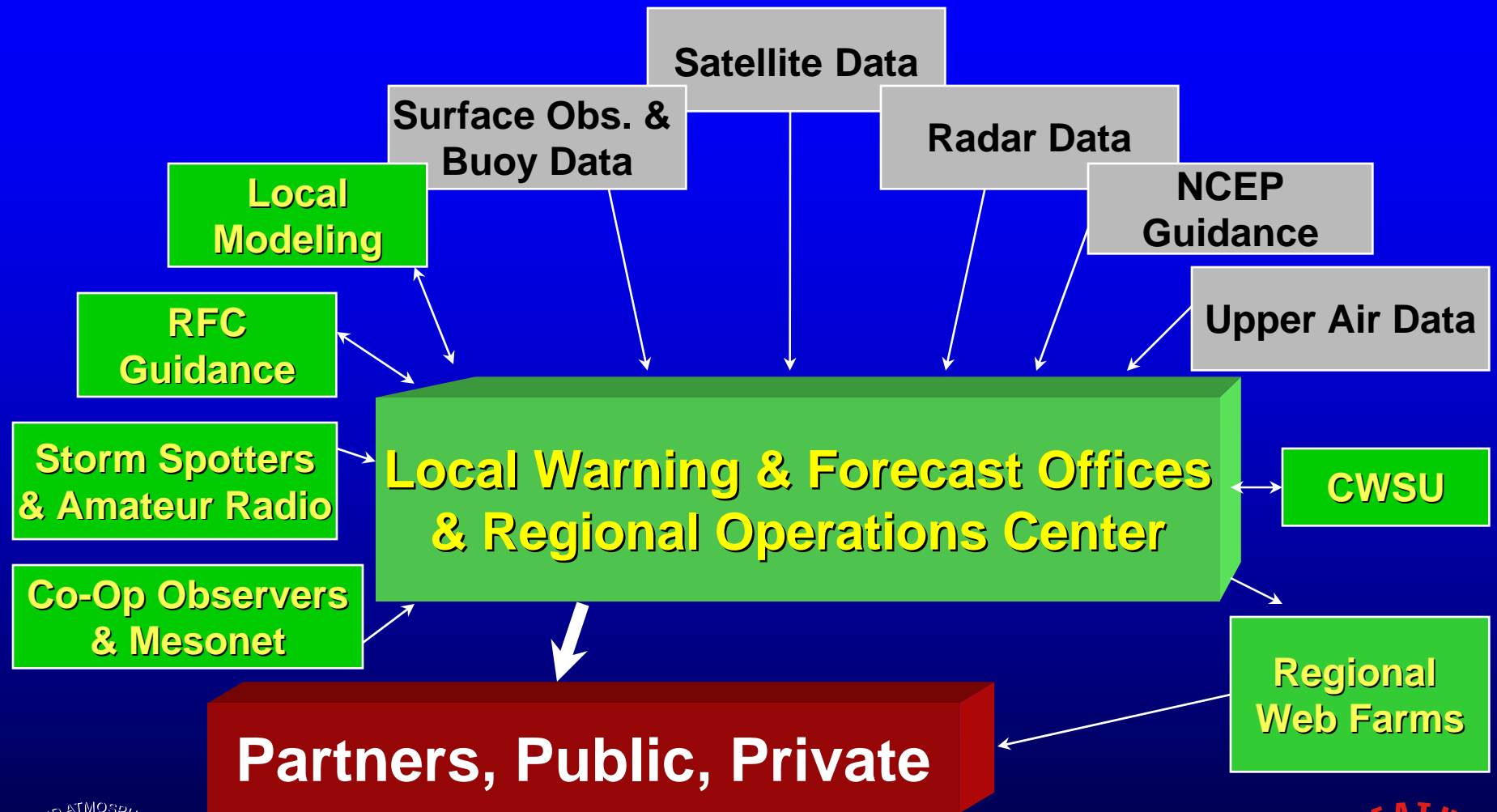
# 122 NWS Warning Forecast Offices



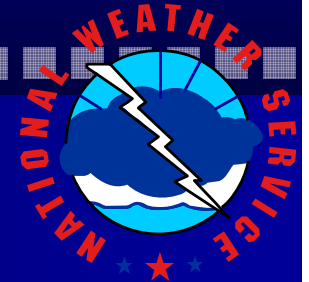
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# NWS Information Flow

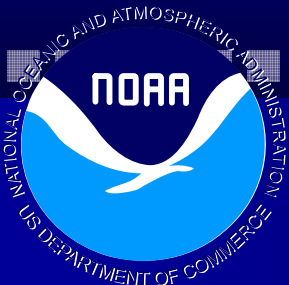


NWS SOUTHERN REGION  
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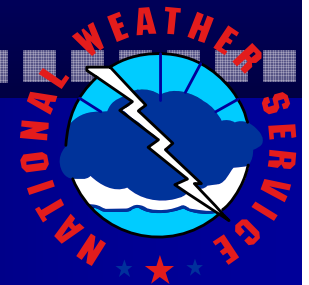


# Having a Local WFO is Critical

- Your local source of timely weather warnings, watches, advisories, statements and outlooks.
  - (e.g. TORs, SVS', SPS', & HWOs)
- Partner in Community Outreach & Preparedness.
- Local Area Expertise.
- For 24 x 7 weather support in natural and man made (accidental or intentional) events.



NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)

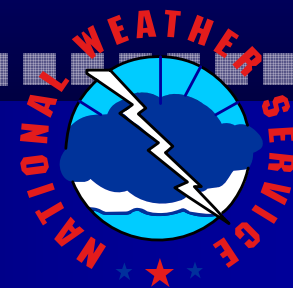


# Regional Operations Center

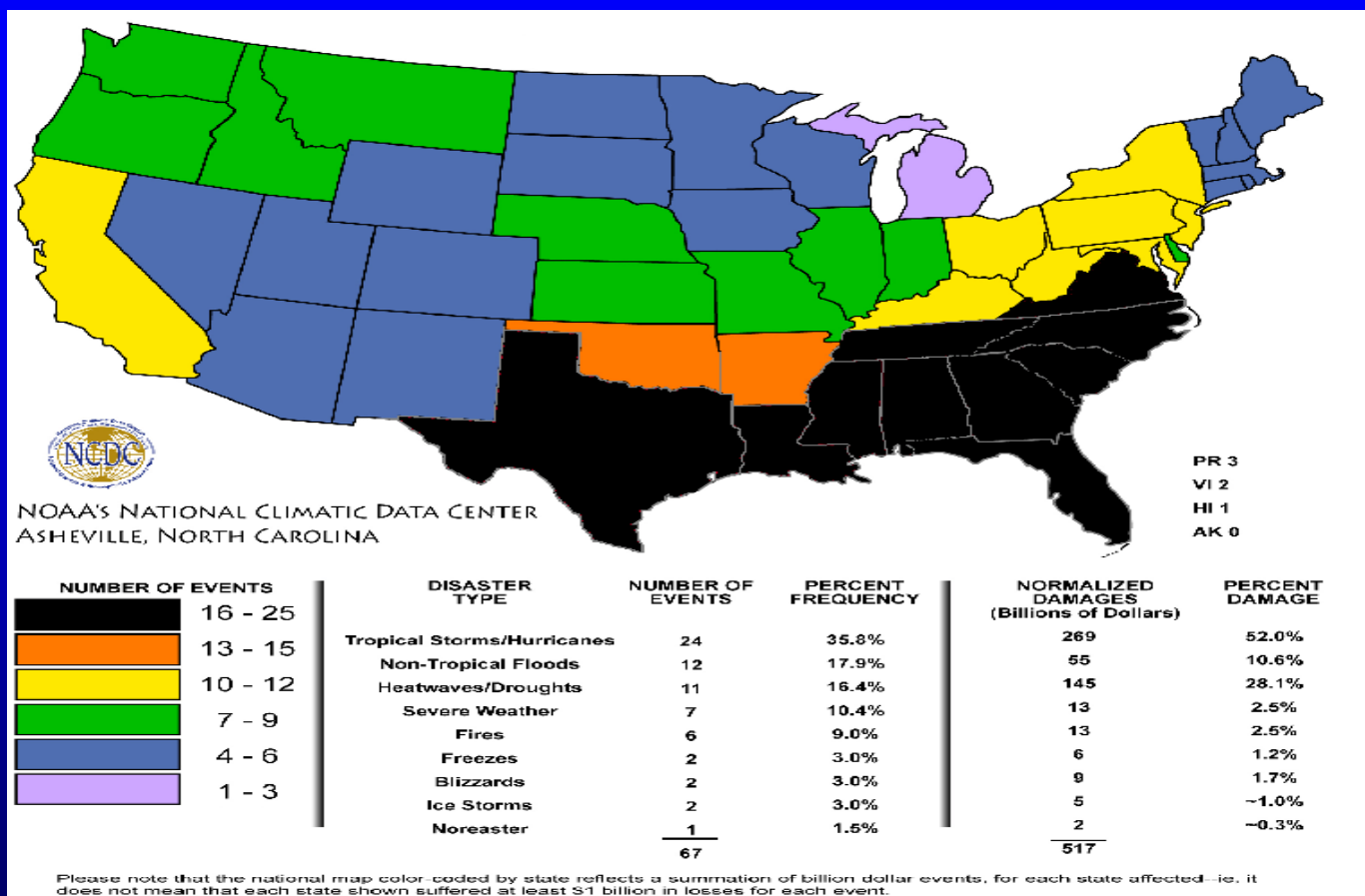
- Federal/State/Local EM briefings
- NWS major weather event coordination
- Special staff deployments to your field command centers.
- Media briefing & post-event assessment & reporting
- **817-978-1100 x147**



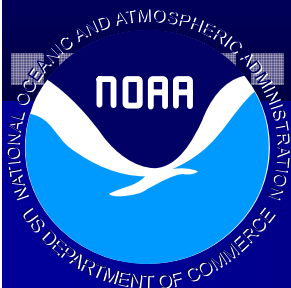
NWS SOUTHERN REGION  
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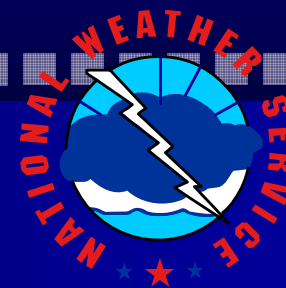
# World's Most Active Weather!



## Billion Dollar Weather Events, 1980-2005



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[www.srh.weather.gov](http://www.srh.weather.gov)





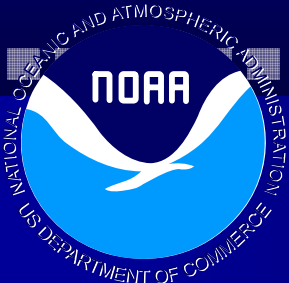
# WFOs & EM Community Save Lives

## April 1974 Super Outbreak

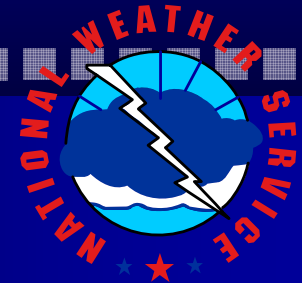
- Single largest 24 hour tornado outbreak
- 148 Tornadoes
- 330 Fatalities
- Up to 5 Minute Lead Time

## May 2003 Outbreak

- Unprecedented in size & time (9 days)
- 340 Tornadoes
- 39 Fatalities
- Averaged **19 Minute** Lead Time

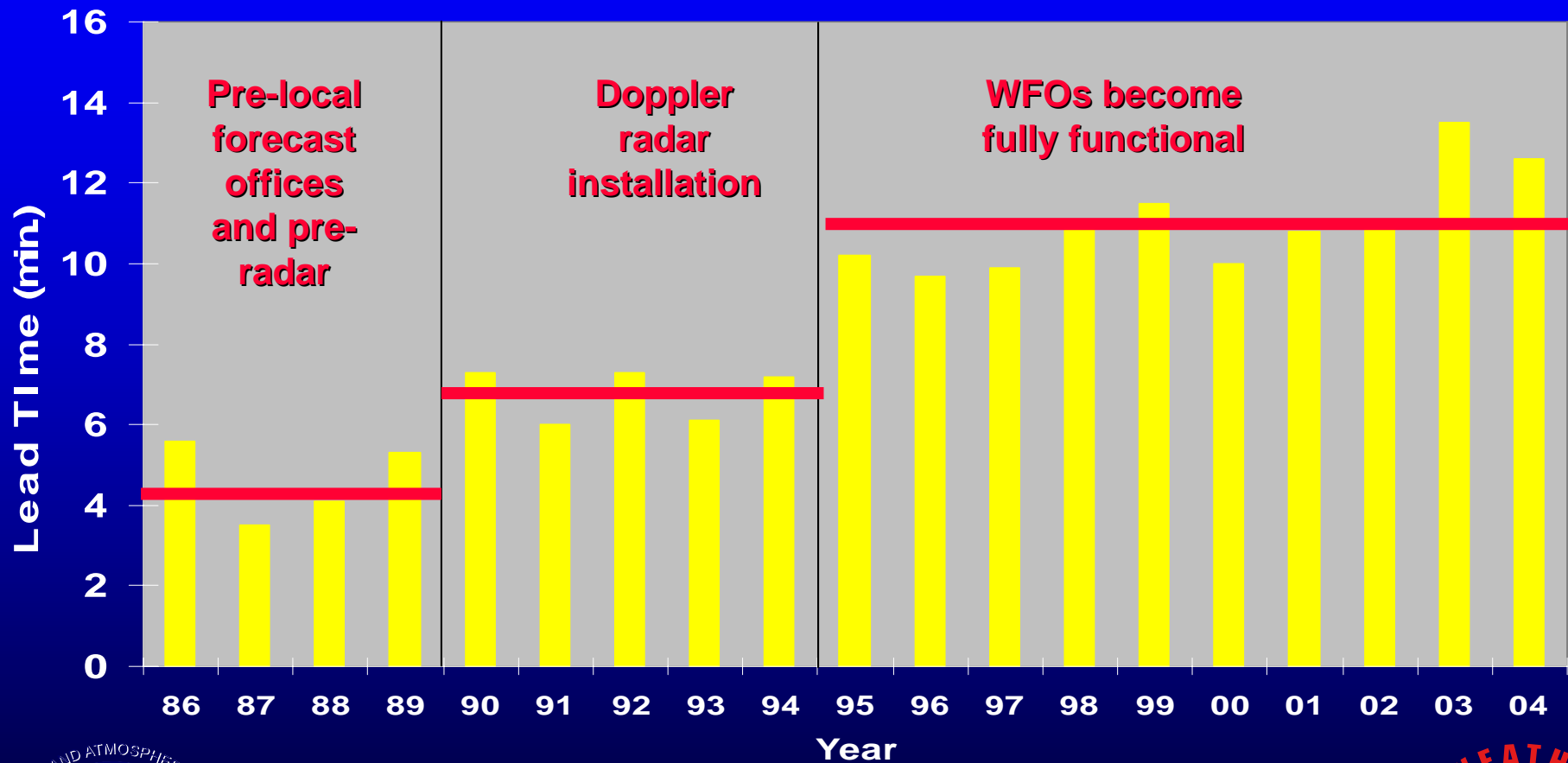


NWS SOUTHERN REGION  
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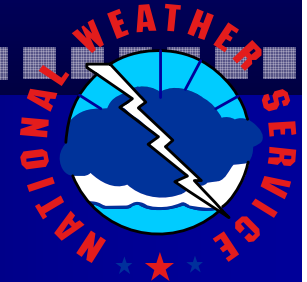


# Local WFOs Save Lives

## Tornado Warning Lead Time

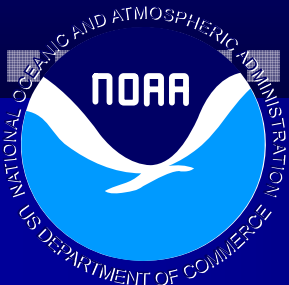
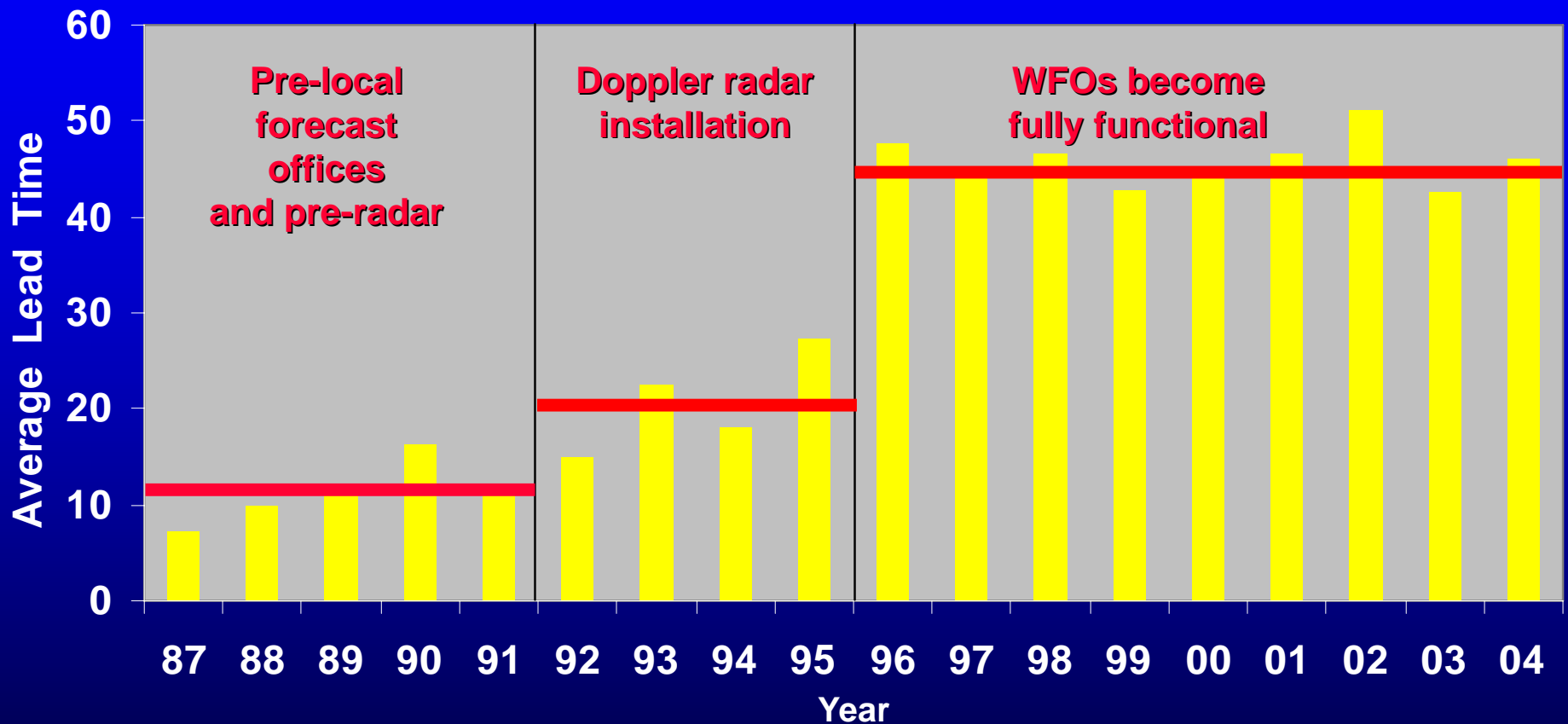


NWS SOUTHERN REGION  
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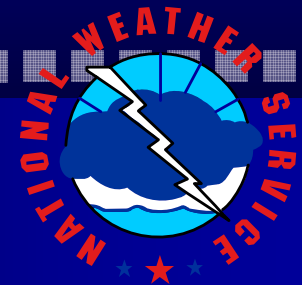


# Local WFOs Save Lives

## Flash Flood Warning Lead Time

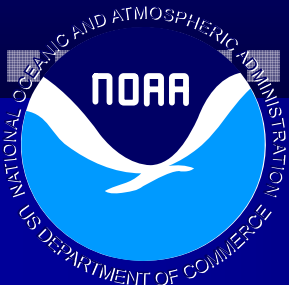
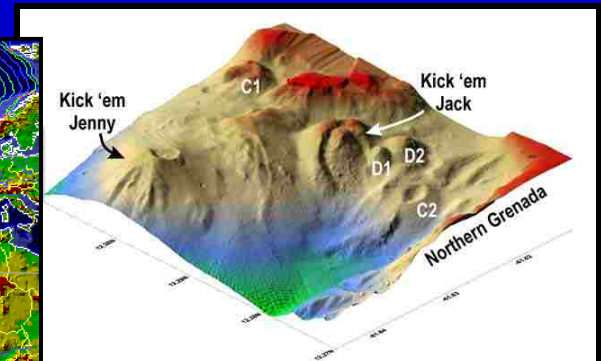
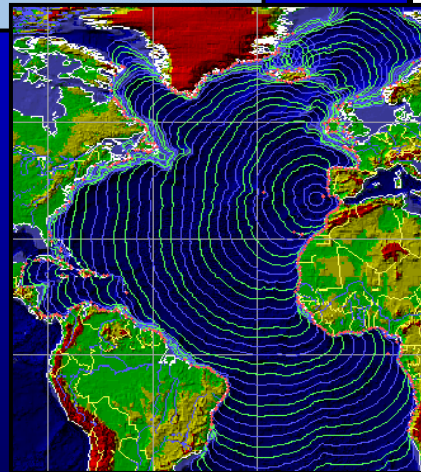
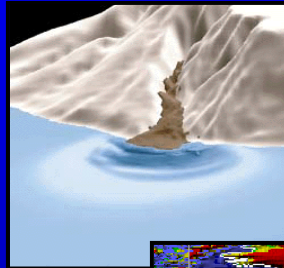


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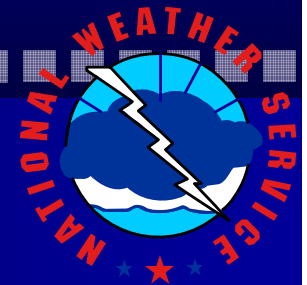


# Atlantic Tsunami-genic Events

- **Earthquakes** (major earthquakes can cause killer tele-tsunamis traveling up to 500 mph)
- **Landslides** (above and below sea-level e.g. continental shelf and steep trenches)
- **Volcanoes** (both submarine and above sea-level)
- **Tele-tsunamis** (Canary Islands & western Europe e.g. Lisbon 1755)



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[www.srh.weather.gov](http://www.srh.weather.gov)



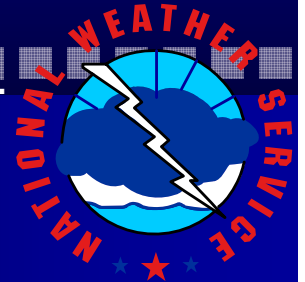
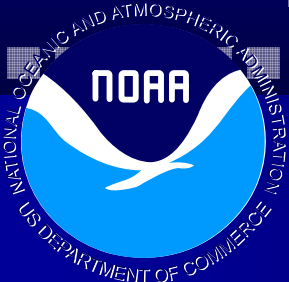
# Western Atlantic Tsunami Fatalities in last 165 Years

Date	Place	Fatalities
1842	Haiti	5000
1853	Venezuela	600-4,000
1867	Virgin Islands	23
1882	Panama	75-100
1906	Jamaica	500
1918	Puerto Rico	140
1929	Canada	28
1946	Puerto Rico	75
1946	Dominican Republic	1,790

8231 - 11656 TOTAL

NWS SOUTHERN REGION

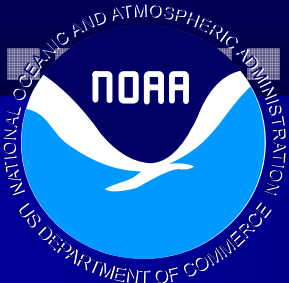
[www.srh.weather.gov](http://www.srh.weather.gov)



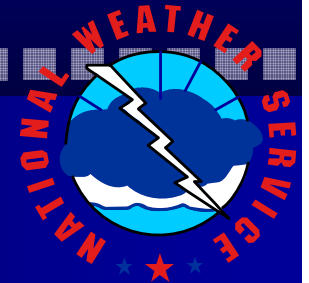
# NWS SR Internet Site

[www.srh.weather.gov](http://www.srh.weather.gov)

- Serves as one-stop source of weather info.
- Developed with both partners and public in mind.
  - **Easy navigation**
  - **Data given in the manner you need it.**
- Increases public awareness and response to valuable NWS 24 x 7 products and services.

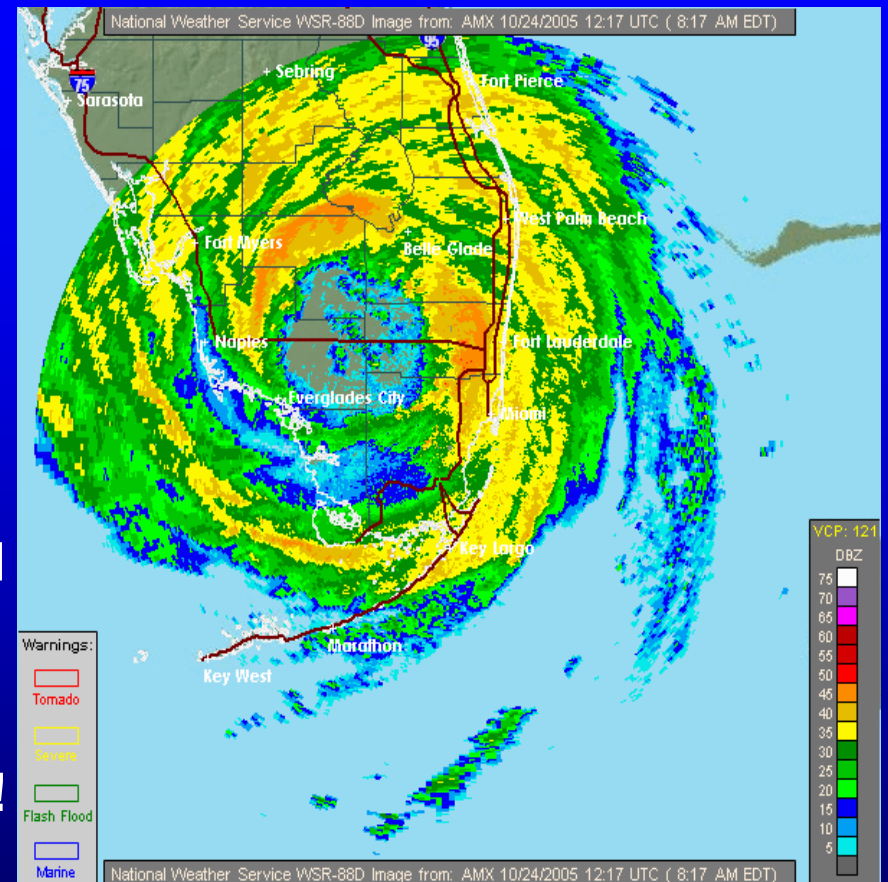


NWS SOUTHERN REGION  
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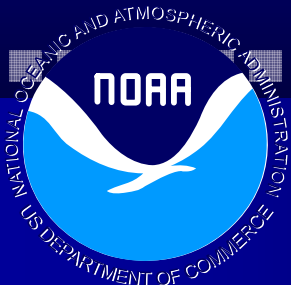


# New NWS GIS Radar Webpages

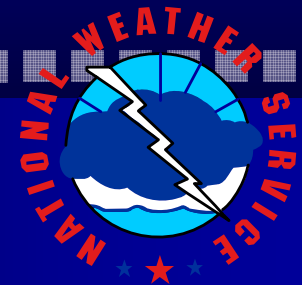
- Available as time loops for ALL Weather Service Radars
- Radar images and warnings are GIS ready
- Adds NWS warnings to the display
- Calculate distance from a storm and determine Latitude/Longitude
- Provides real time radar reflectivity, precipitation and now, *velocity* data!



[www.srh.weather.gov/ridge](http://www.srh.weather.gov/ridge)



NWS SOUTHERN REGION  
[www.srh.weather.gov](http://www.srh.weather.gov)



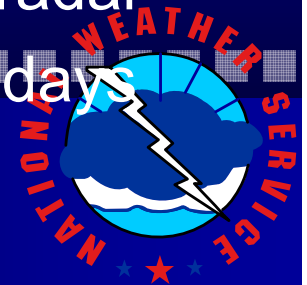
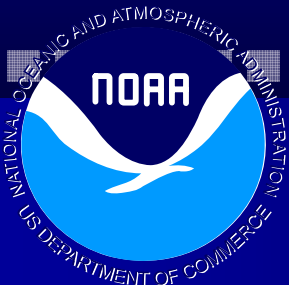


# Radar Background

- Current web radar displays are:
  - Critical to NWS mission
    - Used by EM's, local govts, Mets and other professionals
    - Used by individuals to make important decisions
  - Very popular
    - Radar is 40-50% of our web traffic during land-falling hurricanes
    - That means up to half of 1.4 BILLION hits during 2005 hurricane season was for the radar
- Accounts for ~40% of all NWS hits on avg days

NWS SOUTHERN REGION

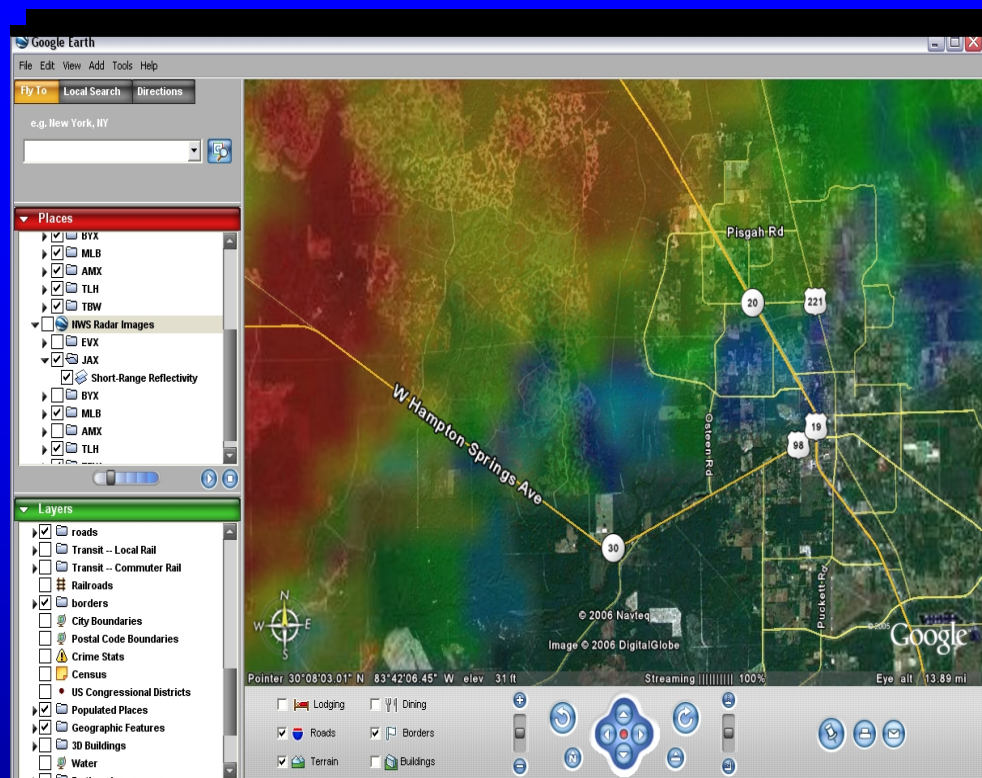
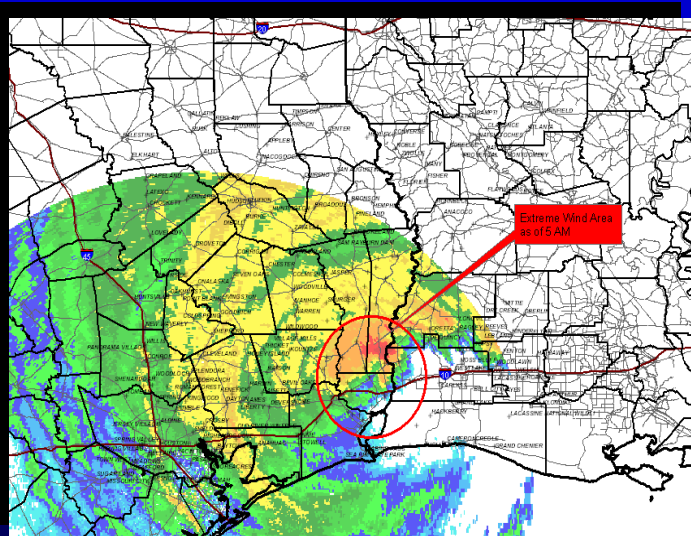
[www.srh.weather.gov](http://www.srh.weather.gov)



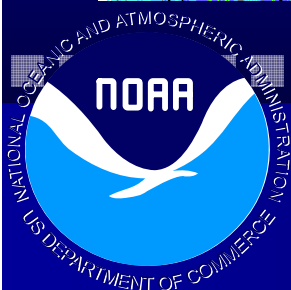


# GIS Ready

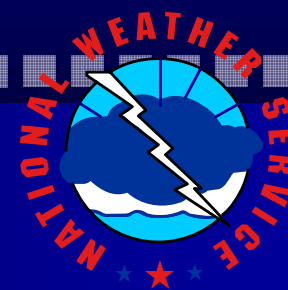
- Radar RIDGE images and warning polygons can be loaded unto your GIS software (Google Earth-right, ArcGIS-below)



- GIS software allows you to integrate NWS radar in real time on your custom maps

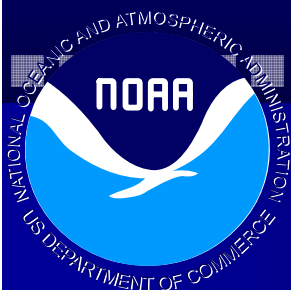
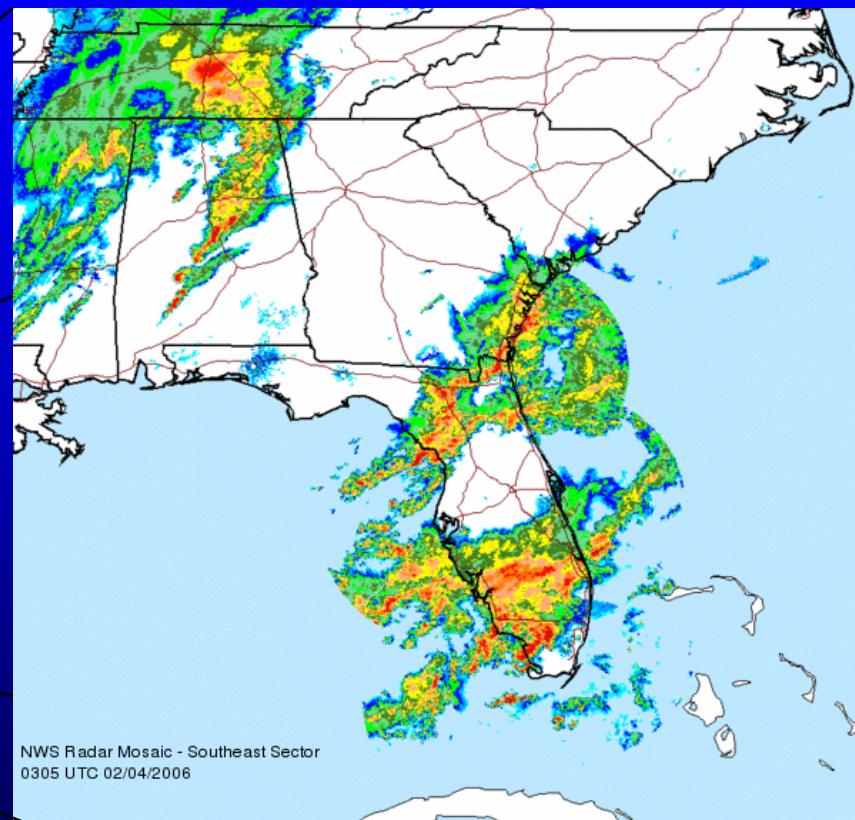
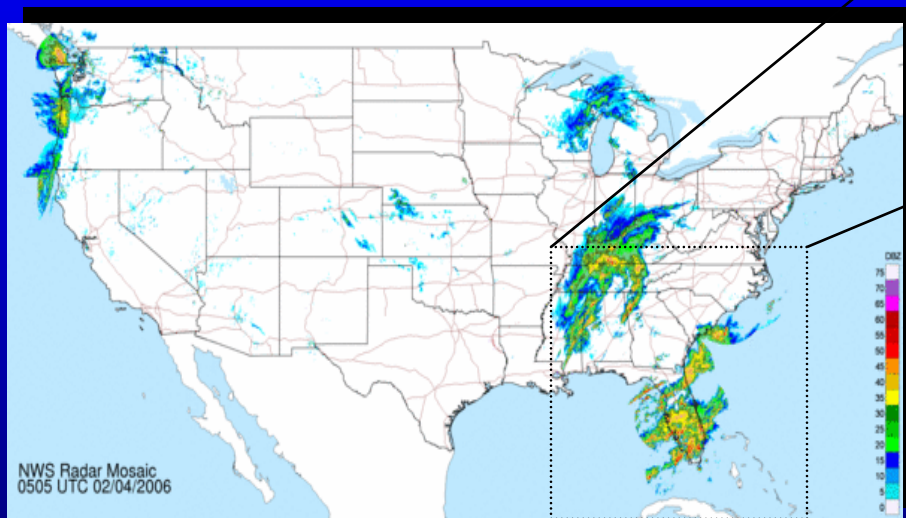


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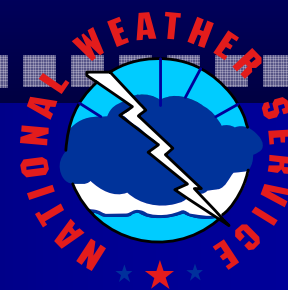


# National and Regional Mosaics

<http://www.srh.noaa.gov/ridge>

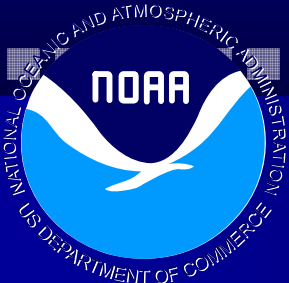


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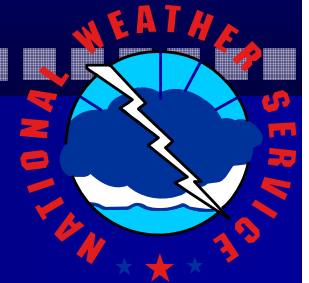


# Record 2005 Tropical Season

- Named storms: 27; previous record: 21 in 1933 (avg season: 11)
- Hurricanes: 13; previous record: 12 in 1969 (avg: 6)
- Major hurricanes hitting the U.S.: Four (Dennis, Katrina, Rita and Wilma); previous record: Three in 2004 (avg: 1)
- Lowest Atlantic pressure ever recorded 882 mb (Wilma) with the normal at 1013 mb



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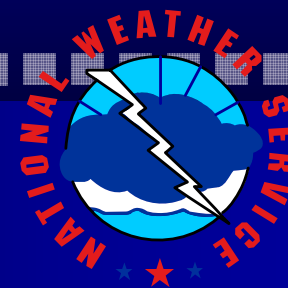


# 2006 Outlook

- Official forecast will be issued in May
- Expected to be above normal due to:
  - Middle of active phase of a multi-decadal cycle
  - Warmer Atlantic Sea Surface temps
  - Possible influence: La Niña conditions



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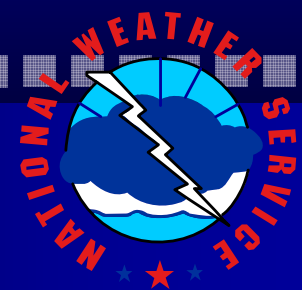


# StormReady®

- Started in Tulsa – 1998
- 1026 nationwide sites
- Improves community weather preparedness
- *A Southern Region initiative, now National!*



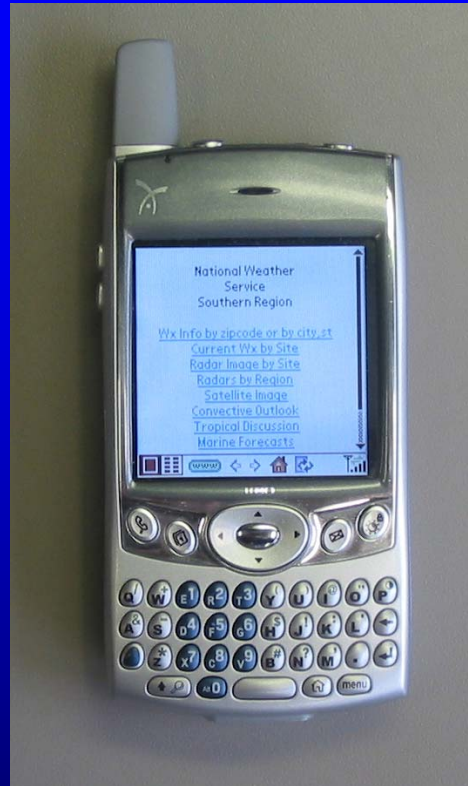
NWS SOUTHERN REGION  
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# Mobile Weather

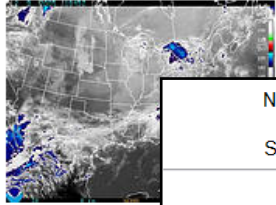
All the weather info  
you need is now  
available on mobile  
devices!

*A Southern Region  
Initiative!*



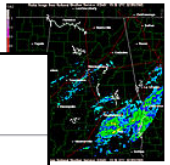
National Weather Service  
Southern Region

GOES Eastern US IR



National Weather Service  
Southern Region

Radar: kbmh  
Birmingham, AL  
01:36 PM CST Wed Feb 09 2005



National Weather Service  
Southern Region

Fort Worth, TX  
Current Local Conditions at:  
Dallas / Fort Worth International Airport  
Last Update: 02/09/05, 12:53 PM CST  
Mostly Cloudy: 43 °F

[Loop Satellite For Wide Pa](#)

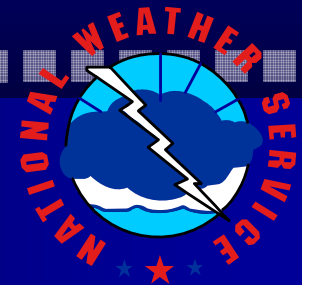
[Forecast at a Glance](#)  
[Detailed 7-day Forecast](#)  
[Your Local Radar](#)  
[Current Conditions](#)  
[Satellite Image](#)  
[Hazardous Weather](#)  
[Area Forecast Discussion](#)

[Radar Image](#)  
[Storm Totals](#)  
[Page Mode](#)

[www.srh.weather.gov/wml](http://www.srh.weather.gov/wml)



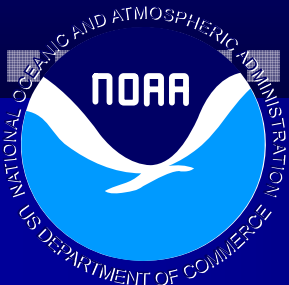
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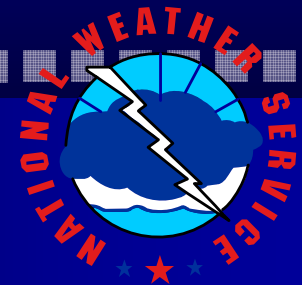
# The Future of the NWS

Improvement will be through –

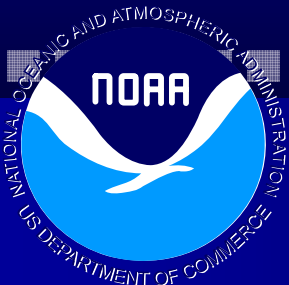
*“mesoscale (local scale) weather & climate information, modeling, forecasts and warnings ”*



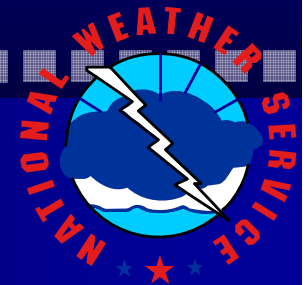
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Your National Weather Service  
epitomizes the concept:  
**...government closest to the people,  
serves best!**



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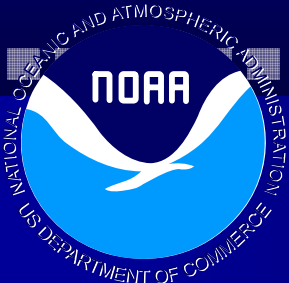
**Questions?**  
**Bill.Proenza@noaa.gov**  
**(817) 978-1000**

**Would you like copies of the slides?**

**Go To: [www.srh.weather.gov](http://www.srh.weather.gov)**

**At Left Margin Click on:**  
**At Left Margin Click on:**

**Welcome from the Director**  
**“2006 RISC”**



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